DOCKET NO.: JJPR-0033/ORT-1377DIV2

Application No.: 10/626,126

Office Action Dated: September 9, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application.

PATENT

Listing of Claims:

1. (Previously Presented) An isolated and purified nucleic acid molecule

that encodes a mammalian histamine H4 receptor protein, said nucleic acid molecule

comprising a member selected from the group consisting of:

(a) a nucleic acid molecule encoding a protein comprising amino acids 1 to 391 of

SEQ ID NO:9;

(b) a nucleic acid molecule which is complementary to the polynucleotide of (a);

(c) a nucleic acid molecule comprising at least 15 sequential bases of the

polynucleotide of (a) or (b); and

(d) a nucleic acid molecule that hybridizes under stringent conditions to the

polynucleotide molecule of (a).

2. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is

RNA.

3. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is

DNA.

4. (Previously Presented) The isolated and purified nucleic acid molecule of

claim 1, having a nucleotide sequence of-SEQ ID NO:6.

5. (Original) The isolated and purified nucleic acid molecule of claim 1, wherein

said nucleic acid molecule is genomic DNA.

6. (Previously Presented) An expression vector for expression of a mammalian

histamine H4 receptor protein in a recombinant host, wherein said vector contains a nucleic

acid sequence encoding a mammalian histamine H4 receptor protein having an amino acid

sequence of SEQ ID NO:9.

Page 2 of 5

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DOCKET NO.: JJPR-0033/ORT-1377DIV2 PATENT

Application No.: 10/626,126

Office Action Dated: September 9, 2005

7. (Previously Presented) The expression vector of claim 6, wherein the expression vector contains a nucleic acid molecule encoding a mammalian histamine H4 receptor protein having a nucleotide sequence of SEQ ID NO:6.

- 8. (Previously Presented) The expression vector of claim 6, wherein the expression vector contains genomic DNA encoding said mammalian histamine H4 receptor protein.
- 9. (Previously Presented) A recombinant host cell containing a recombinantly cloned nucleic acid molecule encoding a mammalian histamine H4 receptor protein having an amino acid sequence of SEQ ID NO:9.
- 10. (Previously Presented) The recombinant host cell of claim 9, wherein said nucleic acid molecule has a nucleotide sequence of SEQ ID NO:6.
- 11. (Original) The recombinant host cell of claim 9, wherein said cloned nucleic acid molecule is genomic DNA.
- 12. (Previously Presented) A substantially pure histamine H4 receptor encoded by the nucleic acid molecule of claim 1.
- 13. (Previously Presented) The protein according to claim 12, having an amino acid sequence SEQ ID NO:9.

14-15. (Canceled)

- 16. (Original) A process for expression of mammalian histamine H4 receptor protein in a recombinant host cell, comprising:
 - (a) transferring the expression vector of Claim 6 into suitable host cells; and
- (b) culturing the host cells of step (a) under conditions which allow expression of the mammalian histamine H4 receptor protein from the expression vector.

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PATENT

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17-25. (Canceled)